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APPLICATION NO.	FILING	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,857	05/31/2001		Ralf Trutschel	10191/1750	3474
26646	7590	11/17/2004		EXAM	INER
KENYON & KENYON ONE BROADWAY				KIM, CHR	ISTOPHER S
NEW YORK		4		ART UNIT	PAPER NUMBER
				3752	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Y
	Application No.	Applicant(s)
Office Action Summan	09/763,857	TRUTSCHEL ET AL.
Office Action Summary	Examiner	Art Unit
	Christopher S. Kim	3752
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Any reply received by the Office later than three months after the maximum date of the maximum statutory.  - See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 18 2a) This action is FINAL. 2b) T  3) Since this application is in condition for allocation accordance with the practice under	his action is non-final. wance except for formal matte	
Disposition of Claims		
4) ☐ Claim(s) 23-36 is/are pending in the application 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) 23-34 is/are allowed.  6) ☐ Claim(s) 35 and 36 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction an Application Papers	drawn from consideration.	
9) The specification is objected to by the Exam	niner.	
10) ☐ The drawing(s) filed on 18 October 2004 is/s  Applicant may not request that any objection to s  Replacement drawing sheet(s) including the cons  11) ☐ The oath or declaration is objected to by the	are: a) ☐ accepted or b) ☑ ot the drawing(s) be held in abeyand rection is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)	<b>"</b> □	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	Paper No(s	ummary (PTO-413) /Mail Date
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date		formal Patent Application (PTO-152) 

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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 18, 2004 has been entered.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## **Drawings**

- 3. The drawing filed on October 18, 2004 is acknowledged.
- 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "fuel injection system of an internal combustion engine" recited in claims 23 and 34; the "direct injection of a fuel into a combustion chamber of the internal combustion engine" recited in claim 24; the "outlet plane" recited in claim 35; and the "injector is configured for a direct injection of a fuel into a combustion chamber of the internal combustion engine" recited in claim 24 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 103

5. Claims 35 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ren et al. (5,996,912)...

Ren et al. differs from what is being claimed in the flattened face diameter d being greater than the outlet orifice diameter. Ren et al. discloses an outlet orifice diameter  $d_0$  which is greater than the flattened face diameter  $d_f$ . This embodiment is precisely the embodiment applicant discloses in figure 6 and on page 9, lines 8-13 of the current application. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to have optimized the values of  $d_0$  and  $d_f$  for desirability dependent on certain applications (applicant's specification, page 9, line 12).

The recitation "entry plane" has been considered to define that portion of a plane that defines the entrance of the outlet orifice rather than an infinitely sized geometric "plane".

### Allowable Subject Matter

6. Claims 23-34 are allowed.

## Response to Arguments

7. Applicant's arguments filed November 14, 2003have been fully considered but they are not persuasive.

Regarding the objections to the drawings, applicant argues that the specification provides that, "[t]his fuel injector is especially suitable as a high-pressure injection valve for direct injection of a fuel into the combustion chamber of an internal combustion engine," in reference to figure 1. Therefore, figure 1 adequately illustrates a fuel injector configured for a direct injection of a fuel into a combustion chamber of an internal combustion engine. Applicant's argument is not convincing. There is no requirement that every feature described in the specification must be shown. Additionally, the drawings do not automatically show what the specification alleges. Finally, 37 CFR 1.83(a) requires that the drawings must show every feature of the invention specified in the claims. Examiner maintains that "a direct injection of a fuel into a combustion chamber of the internal combustion engine" is a feature of the invention specified in the claims and is further evidenced by applicant's assertion that claim 24 further limiting.

Applicant's argument directed the newly added claims is not commensurate in scope with the claimed invention.

#### Conclusion

8. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the

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grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (703) 308-8336. The examiner can normally be reached on Monday - Thursday, 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (703) 308-1272. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christ<del>opher S. Kim</del> Primary Examiner Art Unit 3752

CK